

Typical values for rides at Lake Compounce.

Conscious commuting

Do this activity as a passenger.

Bolder Dash

Data:

One Train

Mass of each car: 1134 kg

Number of cars: 6

Capacity of one train: 24

Your mass: _____

Total distance traveled 4672 ft. = _____ meters

Total time of ride: 3:02 min. = _____ sec.

Time from loading to unloading: 4:32 min = _____ sec.

Estimate height of first hill: 117 ft = _____ meters.

Estimate angle of first hill: 25

Time to climb the first hill: 30 sec.

Estimate height of largest drop hill: 107 ft. = _____ m

Time to descend largest drop hill: 5 sec.

The wildcat

Data:

Your mass: _____ kg.

Angle of the first hill: 25°

Time for the train to travel up the first hill: 23 seconds.

The Rotor

Data:

Your mass: _____

Radius: 2.25 meters

Period: 0.38 cycles/second

Bumper cars:

Data: No ride specific measurements are required.